

Work Order ID 158185***158185***

Page 1

Monday, March 13, 2017 12:57:00 PM

Item ID: D4880-1 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Strut
Start Date: 3/20/2017 Start Qty: 4.00 ***4*** Cust Item ID:
Required Date: 3/24/2017 Req'd Qty: 4.00 ***4*** Customer:
Reference:

Approvals: Process Plan:  Date: MAR 13 2017 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D4880	C

100

0.18

100

Doosan

Doosan Lathe

DOOSAN LATHE

Memo

0.36

1- Turn as per Folio FB245

Rev: N/A & Dwg D4880 Rev: C

2- Deburr

4 _____ 17-03-20

110

0.00

110

QC

Quality Control

QC2- Inspect parts off machine FAI/FAIB

Memo

0.01

4 _____ 17-03-20

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐						
Date : _____		Step #: _____		QTY Effective : _____		MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				
								Completed By
								Lead hand / Supervisor Approval Verification
								QC / QA Coordinator Approval
Root Cause		FAULT CATEGORY						
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____						
Misidentified ☐	Past Due ☐							

Work Order ID 158185

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Page 2

Item ID: D4880-1

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Strut

Start Date: 3/20/2017 Start Qty: 4.00

4

Cust Item ID:

Required Date: 3/24/2017 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals:

Process Plan: _____

Date: _____

Tooling: _____

Date: _____

Run Start

NR1

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Stop

NR2Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

120

QC8- Inspect parts - second check

0.00

120

QC

Memo

0.01

Quality Control

4

Ø

DAS

44

9-8917-03-22

130

Outsource process - NDT per QSI038 4.1

0.00

130

Outsource2

Memo

0.00

Outsource process - NDT

ISSUE P/O : 356664

C OF C IS REQUIRED

4

MAR 24 2017

DAS

13

9-89

140

Receive & Inspect for Damage & Mat'l Certs

0.00

140

Packaging

Memo

0.01

Packaging

fx sp 17-0324

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
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Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐	
Design ☐		Operator ☐		Bending ☐		Set-up ☐	
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Misidentified ☐		Past Due ☐					

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Page 3

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N900040100

Setup Start

NS1

Revision ID:

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Item Name: Strut

Start Date: 3/20/2017 Start Qty: 4.00

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Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start

NR1

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150	QC5- Inspect part completeness to step on W/O	0.00							
150									
QC	Memo	0.01				4			DAS 38 9-89
Quality Control									17-03-24
160	Identify as per dwg & Stock Location: <u>51B</u>	0.00							
160									
Packaging	Memo	0.01				4			DAS 6 9-89
Packaging									MAR 27 2017
170	QC21- Final Inspection - Work Order Release	0.00							
170									
QC	Memo	0.07							17/3/28
Quality Control									


MAR 28 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
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Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

Monday, March 13, 2017 12:57:00 PM

Page 1

Work Order ID: 158185

158185

Parent Item: D4880-1

D4880-1

Parent Item Name: Strut

Start Date: 3/20/2017

Required Date: 3/24/2017

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP REV:A 13.12.17 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M174PH-H900R0.750		Purchased	No			100	f	9.0800	0.76	3.2			

M174PH-H900R0 750

17-4 SS H900 ROUND BAR 0.750"

Location

Loc Qty

Loc Code

MAT030

9.08

m136481

9.08

3-16-17 17-03-20

M174PH-H900R0.750
M136481

DQA: _____ Date: _____



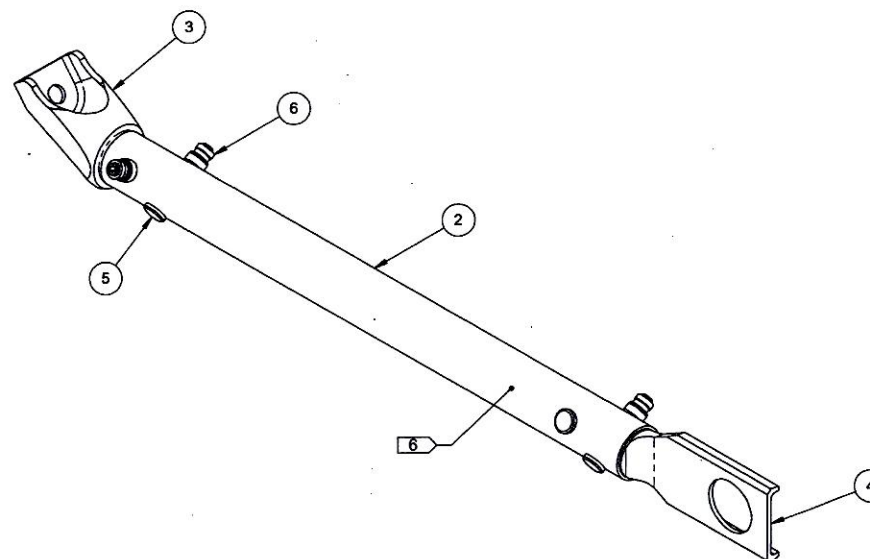
WORK ORDER NON-CONFORMANCE / UPDATE

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ITEM	QTY. -041	P/N	DESCRIPTION
1	X	D4880-041	FWD LEG ASSEMBLY, LH
2	1	D4880-1	STRUT
3	1	D4883-7	END FITTING
4	1	D4884-1	END FITTING, EYE
5	4	HL32PB5-12	HI-LOK PIN
6	4	HL86-5	HI-LOK COLLAR



D4880-041 FWD LEG ASSEMBLY, LH
(EQUIVALENT TO BELL P/N 206-062-101-101)

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.8
- 7) WEIGHT: 0.69 lbs
- 8) ALIGN PILOT HOLES IN D4880-1 WITH PILOT HOLES IN D4883-7 & D4884-1.
DRILL OUT EACH HOLE USING A P/N 13-SB65 (0.125) PILOTED DRILL.
REAM EACH HOLE USING P/N 31-219 (Ø0.1610) REAMER, USING DART TOOL SETUP DT9971
- 9) INSTALL PIN/COLLAR AND END FITTING WITH HYSOL EA934NA OR MAGNOBOND 6398 ADHESIVE WHILE STILL WET
- 10) ASSEMBLE PER DART TOOL DT9971
- 11) INSTALL HL32PB5-12 HI-LOK IN ORIENTATION SHOWN

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. **152185**

MAR 13 2017

RELEASED
2014-07-03

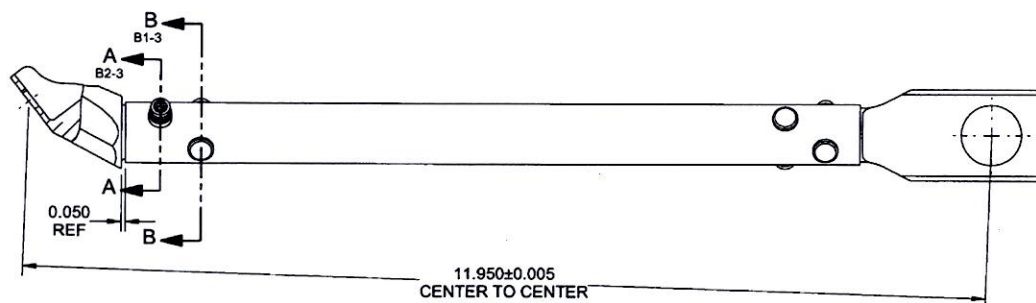
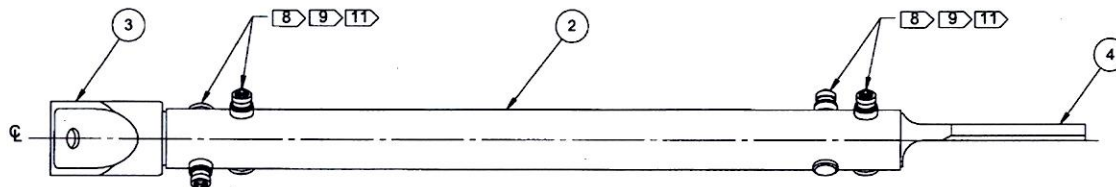
C	HL32PB5-12 WAS HL20PB5-12 (ZN D4-1, D4-3); REVISE NOTE 6) (ZN A8-5); ADD "FWD" (ZN B4-1, B4-2, B4-3, B4-4)	RF	14.06.24
B	REVISE NOTES 6), 7) & 9) (ZN A8-1, A8-3); ADDED BELL P/N	RF	14.04.08
A	NEW ISSUE	RF	13.09.16
REV.	DESCRIPTION	BY	DATE
DESIGN	RF		
DRAWN	VS		
CHECKED	HS		
MFG. APPR.	JLM		
APPROVED	HS		
DE APPR.	DS		
DATE	14.06.24		

APPROVED

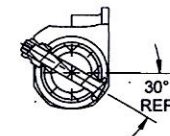
DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. **D4880** REV. C
SHEET 1 OF 5
TITLE **LEG ASSEMBLY** SCALE NTS

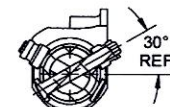
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D4880-041 FWD LEG ASSEMBLY, LH
AUXILIARY VIEW



SECTION A-A C7-3
2 PL, SIMILAR



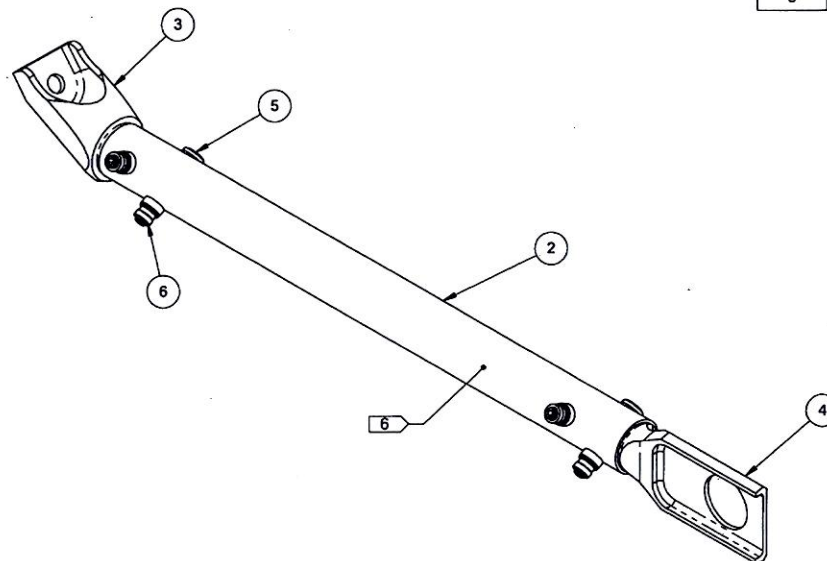
SECTION B-B C7-3
2 PL

RELEASED
2014-07-07
WNP

APPROVED

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED	HS	DRAWING NO.	REV. C
MFG. APPR.	JLM	D4880	SHEET 2 OF 5
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	LEG ASSEMBLY	NTS
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ITEM	QTY. -042	P/N	DESCRIPTION
1	X	D4880-042	FWD LEG ASSEMBLY, RH
2	1	D4880-1	STRUT
3	1	D4883-5	END FITTING
4	1	D4884-1	END FITTING, EYE
5	4	HL32PB5-12	HI-LOK PIN
6	4	HL86-5	HI-LOK COLLAR



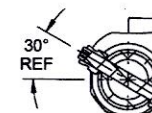
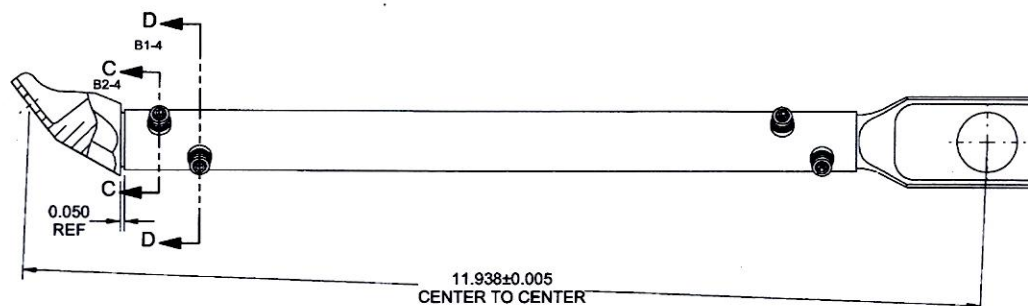
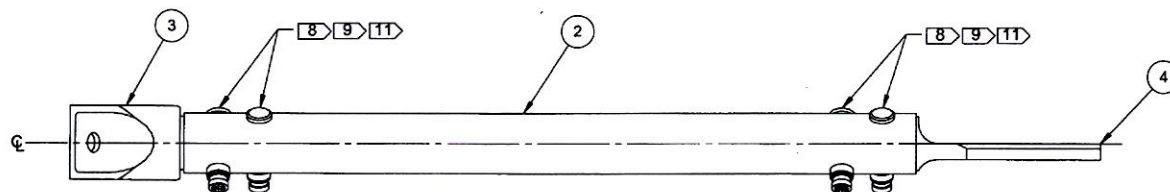
D4880-042 FWD LEG ASSEMBLY, RH 
(EQUIVALENT TO BELL P/N 206-062-101-102)

NOTES:

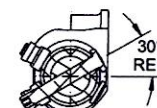
- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.8
- 7) WEIGHT: 0.69 lbs
- 8) ALIGN PILOT HOLES IN D4880-1 WITH PILOT HOLES IN D4883-5 & D4884-1.
DRILL OUT EACH HOLE USING A P/N 13-SB65 (0.125) PILOTED DRILL.
REAM EACH HOLE USING P/N 31-219 (Ø0.1610) REAMER, USING DART TOOL SETUP DT9972
- 9) INSTALL PIN/COLLAR AND END FITTING WITH HYSOL EA934NA OR MAGNOBOND 6398 ADHESIVE WHILE STILL WET
- 10) ASSEMBLE PER DART TOOL DT9972
- 11) INSTALL HL32PB5-12 HI-LOK IN ORIENTATION SHOWN

RELEASED
2014-07-07

APPROVED	DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
	DRAWN	VS		
	CHECKED	HS	DRAWING NO.	REV. C
	MFG. APPR.	JLM	D4880	SHEET 3 OF 5
	APPROVED	HS	TITLE	SCALE
	DE APPR.	DS	LEG ASSEMBLY	NTS
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SECTION C-C C7-4
2 PL



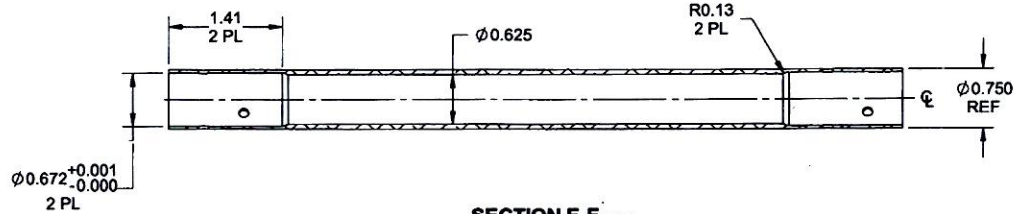
SECTION D-D C7-4
2 PL

D4880-042 FWD LEG ASSEMBLY, RH
AUXILIARY VIEW

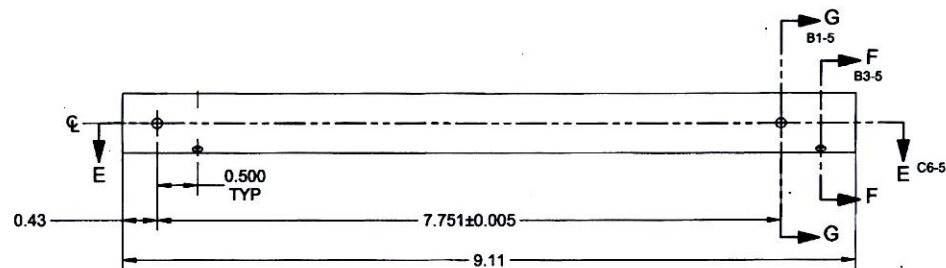
RELEASED
2014-07-07
MD

APPROVED

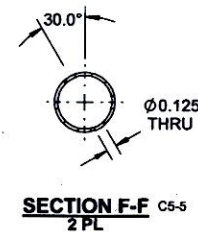
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED	HS	DRAWING NO.	REV. C
MFG. APPR.	JLM	D4880	SHEET 4 OF 5
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	LEG ASSEMBLY	NTS
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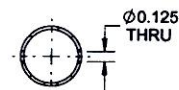
SECTION E-E B4-5



D4880-1 STRUT



SECTION F-F C5-5



SECTION G-G C5-5

RELEASED
2014-07-07

NOTES:

- 1) MATERIAL: 17-4 PH/S17400/TYPE 630 SS ROUND BAR, H900 CONDITION
PER AMS 5643/ASTM A564
DART SPEC M17-4-R
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.6
- 7) WEIGHT: 0.31 lbs
- 8) LIQUID PENETRANT INSPECT PER QSI 038 6.1.1 (ASTM E1417 LEVEL 2)

APPROVED

DESIGN	RF
DRAWN	VS
CHECKED	IS
MFG. APPR.	JL
APPROVED	I
DE APPR.	DL
DATE	14.06.24

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. **D4880** REV. C
SHEET 5 OF 5
TITLE **LEG ASSEMBLY** SCALE NTS

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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35666

Purchase Order Date 3/22/2017
PO Print Date 3/24/2017

Page Number 2 of 3

Order From :
SKYSERVICE
6120 MIDFIELD ROAD
MISSISSAUGA, ONTARIO L5P 1B1
CANADA

VC-SKY001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905-678-5636

Ship To Contact

Ship To Phone

Ship Via: Delivered

Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

Line Total: \$0.00

158185

D4880-1 STRUT

3/24/2017

Yes

3/24/2017

LIQUID PENETRANT INSPECTION AS PER QSI 038 OR
LPI AS PER ASTM 1417 LEVEL 2

4.00

\$0.00

\$0.00

SP14-03-24

Line Total: \$0.00

4 157955

D412-664-403
CROSSTUBE

3/24/2017

1.00

\$0.00

\$0.00

Yes

3/24/2017

LIQUID PENETRANT INSPECTION AS PER QSI 038 OR
LPI AS PER ASTM 1417 LEVEL 2

Line Total: \$0.00

5 157956

D412-664-403
CROSSTUBE

3/24/2017

1.00

\$0.00

\$0.00

Yes

3/24/2017

LIQUID PENETRANT INSPECTION AS PER QSI 038 OR
LPI AS PER ASTM 1417 LEVEL 2

Note:

3/24/2017

**skyservice****Work Order Traveler**
Sky Service F.B.O. Inc.

DOT APP 53-89 / EASA 145.7142 / BDA AMO 385

WO #: MWO31514	Customer: Dart Aerospace Ltd.	Dept: NDT YUL	Reference: PO35666
Descr:	PN:	S/N:	Qty: 1
Make:	Model:	Reg:	A/C S/N:
TSN:	CSN:	TSO:	
Task: UNSCHEDULED			Sequence: 1

Work Required:

CARRY OUT NDT ON 3 CROSSTUBES AND 10 STRUTS AS PER PO35666

3 STAINLESS STEEL AFT CROSSTUBES , ITEM ID# D412-664-403 , WORK ORDERS ID# 157955, 157956, 157957

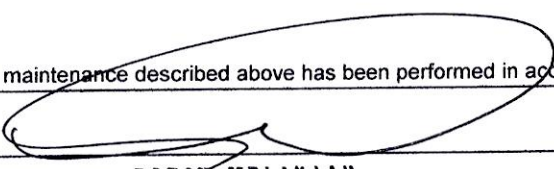
4 STRUTS , ITEM ID# D4880-1 , WORK ORDER ID# 158185

SP17-03-24

6 STRUTS , ITEM ID# D4882-1 , WORK ORDER ID# 158186

Action Taken:						Date:	Initial/Stamp:
LPI C/O IAW ASTM E-1417M-13 ***NO CRACK FOUND*** PEN. ZL-56, MPO13600, CLEANER SKC-S MPO13923 , EMU. MPO15896, DEV. MPO11715 , UV LIGHT M-20142						MAR 24 2017	 
Description	Location	P/N	Qty	Batch	S/N Off	S/N On	

I certified that the maintenance described above has been performed in accordance with the applicable standard of airworthiness.

Signature: 	ACA/SCA Stamp 	Date: MAR 24 2017
Name: RAFIK MELIKIAN		